



ADDENDUM TO PRELIMINARY AMENDMENT FOR REISSUE APPLICATION
OF DECEMBER 4, 2003

Status of Claims as of December 4, 2003

1. (Amended) Implement for working soil comprising a main frame, a hitch mounted on said main frame for attaching the main frame to a vehicle for towing the main frame along a path, said main frame extending substantially transverse to said path, scarifying teeth extending from said main frame for engaging and scarifying said soil, multiple tines extending from the main frame, said tines being spaced from one another along said main frame, said main frame being adjustable relative to the vehicle to move the scarifying teeth and tines into engagement with soil at an angle to work and grade soil, said main frame also being adjustable relative to the vehicle to move the scarifying teeth and tines out of engagement with said soil, a subframe mounted on said main frame by a pivot connection for pivoting along a substantially horizontal axis, a blade mounted on said subframe secured against movement relative to the subframe, said scarifying teeth located between said blade and said tines, said blade extending substantially parallel to said main frame whereby said blade is permitted to move relative to said tines, said subframe being moveable about said axis from an upper position to a lowered position, and a manually releasable latching means for releasably latching said subframe in said upper position.

2. (Original) Implement as claimed in claim 1, wherein said main frame includes guides engaging said subframe for restraining said subframe against substantial movement transverse to said main frame.

3. (Original) Implement for working soil comprising a main frame including a pair of substantially parallel main frame members, a hitch mounted on one of said main frame members for attaching the frame to a vehicle for towing the frame along a path, said main frame members extending substantially transverse to said path, multiple tines extending from the other main frame member, said tines being spaced from one another along said other main frame member, said main frame being adjustable relative to the vehicle to move the tines into engagement with soil at an angle to work and grade soil, said main frame also being adjustable relative to the vehicle to move the tines out of engagement with said soil, multiple rigid

scarifying teeth rigidly mounted on said other main frame member, and a blade carried by said main frame between said main frame members, said blade being movable into a position engaging soil.

4. (Original) Implement as claimed in claim 3, wherein said blade is mounted on said frame through a connection permitting relative movement between the blade and the main frame to permit the blade to follow the contours of the soil as the main frame is moved along said path.

5. (Original) Implement as claimed in claim 4, wherein said connection is a pivoting connection.

6. (Original) Implement as claimed in claim 5, wherein latching means carried by said main frame is movable into a restraining position limiting pivoting of said blade relative to said main frame.

7. (Original) Implement as claimed in claim 5, wherein latching means carried by the main frame is movable to a suspending position locking the blade to a support carried by the mainframe in a position suspending the blade above the soil when the tines engage the soil.

8. (Original) Implement as claimed in claim 5, wherein latching means carried by the main frame is movable to a position locking the blade to a support carried by the mainframe in a position in which the blade is maintained in engagement with the soil and the tines are suspended from the soil.

9. (Original) Implement as claimed in claim 5, wherein said other main frame member is defined by a pair of lips extending transversely to said path, said tines being mounted on one of said lips, the other lip extending from said one lip and cooperating with the one lip and said tines to form a scoop for catching soil, whereby said tines grade and work soil when the vehicle moves the implement in one direction and the scoop catches soil when the vehicles is moved in the opposite direction.

10. (Original) Implement for working soil comprising a main frame, a hitch mounted on said main frame for attaching the main frame to a vehicle for towing the main frame along a path, said main frame extending substantially transverse to said path, multiple tines extending from the main frame, said tines being spaced from one another along said main frame, said main frame being adjustable relative to the vehicle to move the tines into engagement with soil at an angle to work and grade soil, said main frame also being adjustable relative to the

vehicle to move the tines out of engagement with said soil, a subframe mounted on said main frame by a pivot connection for pivoting along an axis, and a blade mounted on said subframe and extending substantially parallel to said main frame whereby said blade is permitted to move relative to said tines, said main frame including guides engaging said subframe for restraining said subframe against substantial movement transverse to said main frame, said guides including restraining members defining a channel therebetween said subframe including a pair of subframe members spaced transversely relative to said path, each of said subframe members being attached to said main frame at said pivot connection and including an extension slidably received in a channel defined by a corresponding one of said guides.

11. (Original) Implement as claimed in claim 10, wherein latching means carried by said guides is movable into a restraining position extending across said channel to thereby limit pivoting movement of the subframe relative to the main frame.

12. (Original) Implement as claimed in claim 11, wherein said latching means is movable to a ground engaging position engaging said extensions to lock the latter to the guides to prevent relative movement of the subframe relative to the main frame in a position in which the blade is maintained in engagement with the soil and the tines are suspended from the soil.

13. (Original) Implement as claimed in claim 10, wherein latching means carried by said guides is movable to a suspending position engaging said extensions to lock the latter to the guides to prevent relative movement of the subframe relative to the main frame in a position suspending said blade above the soil when the tines engage the soil.

14. (Original) Implement as claimed in claim 10, wherein rigid scarifying teeth are rigidly secured to said main frame and extend from said main frame at a ground-penetrating angle when the tines are engaged with said soil at the angle to work and grade said soil, said scarifying teeth being mounted between said tines and said blade.

15. (Original) Implement as claimed in claim 10, wherein said main frame includes a member defined by a pair of lips extending transversely to said path, said tines being mounted on one of said lips, the other lip extending from said one lip and cooperating with the one lip and said tines to form a scoop for catching soil, whereby said tines grade and work soil when the vehicle moves the implement in one direction and the scoop catches soil when the vehicle is moved in the opposite direction.

16. (New) The implement of claim 3 wherein said scarifying teeth are located between said blade and said tines.

Explanation of the Support in the Disclosure of the Patent for the Changes Made to the Claims

In the invention, the placement of the blade in front of the scarifying teeth serves the purpose of reducing the amount of compaction of the worked soil. Placing the blade forward of the scarifying teeth also serves the purpose of knocking down vegetation and collecting rocks ahead of the scarifying teeth and tines as indicated in the specification at column 3, lines 25 through 26. Claim 1 has been amended to include the scarifying teeth as disclosed in the specification in column 2, lines 35 through 54.

Claim 16 adds the limitation that the scarifying teeth are located between the blade and the tines. The same general reasons given with regard to claim 1 regarding the order of the soil working tools and support in the disclosure apply equally to claim 16.